

# Sophia D. Arabadjis

Santa Barbara, CA

Email: [sophia.arabadjis@sph.cuny.edu](mailto:sophia.arabadjis@sph.cuny.edu) [LinkedIn](#) [Profile](#)

## Education

<b>Ph.D., Geography, University of California Santa Barbara</b>	2024
Demography Emphasis	
<b>M.A. Statistics, University of California Santa Barbara</b>	2022
Data Science Specialization	
<b>M.Sc., Applied Social Research, Trinity College Dublin</b>	2015
Awarded with Distinction	
<b>B.A., Anthropology, University of Chicago</b>	2013
Departmental Honors	

## Professional Positions

<b>Postdoctoral Research Fellow</b>	2024-Present
City University of New York, Institute for Implementation Science and Population Health WEATHERing HIV Initiative	
<b>Professional Research Assistant</b>	2016-2018
University of Colorado School of Medicine Pediatric surgical outcomes research, Pediatric Health Information System (PHIS) data, chart review for EPIC EMR system, medical student research project mentor	
<b>Case Writer/Researcher</b>	2016-2018
Harvard Medical School Center for Primary Care Casewriter and qualitative researcher in the Research and Leadership Institute, graduate student mentor, grant application support	
<b>Research Assistant</b>	2015-2016
Harvard Medical School Center for Primary Care	

## Publications

2024	Arabadjis SD, Blakeley L, Marter-Kenyon J, Baylis K, Sweeney SH. (2024) "Sampling, Simulation and Subgroup Detection: Assessing A New Method for Time Use Data Collection" <i>Draft Available</i> .
2024	Arabadjis SD, Sweeney SH. (2024) "HASP: A Hierarchical Activity Simulation Procedure for Realistic Activity Patterns." <i>Submitted. Journal of Time Use Research</i> .
2024	Arabadjis SD, Zheng Z, Strange L, Murray AT, Sweeney SH (2024). "Social Vulnerability, Locational Vulnerability and Uncertainty in a Wildfire Risk Index" <i>Under Review at Annals of the American Association of Geographers</i> .
2024	Arabadjis SD, Sweeney S. (2024). " <a href="#">Residuals in Space: Potential Pitfalls and Applications from Single-Institution Survival Analysis</a> " <i>Spatial and Spatio-temporal Epidemiology</i> . Vol 49 June. (Online April) PMID 38876556

- 2023 Arabadjis SD, Sweeney S. (2023). "New Methods in Time-Use Data Collection: Detecting Subgroup Differences" 2023 JSM Proceedings, Seasonal Adjustment and Official Statistics. Available Online December 2023.
- 2023 Arabadjis SD, Sweeney SH, Kenner CE, Tedesco DJ. (2023) D. "Wildfire, Evacuation, and Cardiovascular Events: A Spatial Exposure Approach." *Applied Geography*. Vol 159 Online. October.
- 2023 Khazen M., Sullivan E. E., Arabadjis S., Ramos J., Mirica M., Olson A., ... & Schiff G. D. (2023). "How does work environment relate to diagnostic quality? A prospective, mixed methods study in primary care." *BMJ open*, 13(5), e071241.
- 2023 Sullivan E. E., Khazen M., Arabadjis S. D., Mirica M., Ramos J. M., Olson A. P., ... & Schiff G. D. (2023). "Exploring relationships between physician stress, burnout, and diagnostic elements in clinician notes." *Diagnosis*, (0).
- 2022 Arabadjis, SD, Sweeney, S. 2022. "New Methods in Time-Use Data Collection." In 2022 JSM Proceedings, Business and Economic Statistics Session. Washington D.C. American Statistical Association. December 2022.
- 2022 Sweeney, S., and Arabadjis, SD. "Chapter 15: Spatial point patterns". In the Handbook of Spatial Analysis in the Social Sciences. Cheltenham, UK: Edward Elgar Publishing. November 15, 2022.
- 2021 Arabadjis S.D., Sullivan E.E., "Data and HIT Systems in Primary Care Settings: an Analysis of Perceptions and Use". *Journal of Health Organization and Management*. 2021. Vol. 35 No.4, pp.425-442, PMID 33354961.
- 2018 Sullivan, E. E., Arabadjis S.D., Alpert J., & Ellner A. "Culture: The Unexpected key to exemplary primary care". *Journal of Organizational Psychology*. 2018. 18(5).
- 2017 Jack H., Arabadjis SD, Sullivan E. E., Phillips R.. "Impact of Community Health Workers on Use of Healthcare Services in the United States: A Systematic Review". *Journal of General Internal Medicine*. 2017 March;32(3):325-344. PMID: 27921257.
- 2017 Basu S, Jack H., Arabadjis, S., Phillips R.. "Benchmarks for Reducing Emergency Department Visits and Hospitalizations Through Community Health Workers Integrated Into Primary Care: A Cost-Benefit Analysis". *Medical Care*. 2017 February;55(2):140-147. PMID 27547954.

#### MEDIA & TEACHING PUBLICATIONS

- 2017 Arabadjis, Sophia D., E. Sullivan. "The Case of Kaiser Permanente: Specializing Primary Care," Harvard Medical School, Center for Primary Care. 2017.
- 2016 Arabadjis, Sophia D., Z. Ibrahim, E. Sullivan. "Camden Coalition of Healthcare Providers: Weighing Opportunity and Capacity (A)," Harvard Medical School, Center for Primary Care. 2016.
- 2016 Arabadjis, Sophia D., E. Sullivan. "Camden Coalition of Healthcare Providers: Flash Forward," Harvard Medical School, Center for Primary Care. 2016
- 2016 Arabadjis, Sophia D., Z. Ibrahim, E. Sullivan. "Top to Bottom: Identifying Places for Change in Catalonia, Spain," Harvard Medical School, Center for Primary Care. 2016.
- 2016 Arabadjis, Sophia D., E. Sullivan. "Camden Coalition of Healthcare Providers: Mobilizing for Growth (B)," Harvard Medical School, Center for Primary Care. 2016.
- 2015 Sullivan, Erin E., T. Hufstader, S. Arabadjis. "Behavioral health and Financing for Southcentral Foundation's Nuka System of Care (B)," Harvard Medical School, Center for Primary Care. 2015.

## Posters & Presentations

---

### INVITED PRESENTATIONS

**Arabadjis, S.D.**, S. Sweeney. "Where the Heart Lies: Cardiac Events and the Thomas Fire." External Speaker: REAL Team. *Evidation Health*. August 19, 2021. Virtual.

### CONFERENCE PRESENTATIONS/POSTERS

- 2024 **S.D. Arabadjis**, S.H. Sweeney, K. Konty, S.E. Day, K. Argenio. "Emergency Department Visits, Survey Results, Administrative Data: Leveraging Local Data Sources to Understand Trends in Adolescent Mental Health". Presentation. *European Population Conference*. Edinburgh, UK. June 2024.
- 2023 **S.D. Arabadjis**, S.H. Sweeney. "Error Measurement and Propagation: Understanding the Reliability of a Wildfire Resilience Index." Poster. *Association of Pacific Coast Geographers Meeting*. Ventura, CA. October 2023.
- 2023 **S.D. Arabadjis**, S.H. Sweeney. "Time-Use in Complex Households: Detecting Subgroup Differences." Presentation. *American Statistical Association Joint Statistical Meeting*. Toronto, Canada. August 2023.
- 2023 **S.D. Arabadjis**, C.E. Kenner, D.J. Tedesco, S.H. Sweeney. "Wildfire Evacuation and CVE Risk: A Study of 2017-2019 Wildfire Years on California's Central Coast." Peter Gould Student Paper Competition Winner. *Association of American Geographers Annual Meeting*. March 2023. Denver, CO.
- 2023 Schlund, Sarah, **Arabadjis, Sophia**, Blakeley, Sari, Sweeney, Stuart. "Coping with Covid-19: An Analysis of Undergraduate Time Use During Lockdown." Poster. *Association of American Geographers Annual Meeting*. March 2023. Denver, CO.
- 2023 Lee, Theo, **Arabadjis, Sophia**, Blakeley, Sari, Sweeney, Stuart. "'Been trying to dance it out': Activity spaces, leisure activities, household dynamics, and socialization among undergraduate students during Covid-19 lockdown." Poster. *Association of American Geographers Annual Meeting*. March 2023. Denver, CO.
- 2023 Sweeney, Stuart, **Arabadjis, Sophia**, Blakeley, Sari. "Theory meets reality: Lessons from field trials of a new time use data collection method." Poster. *Association of American Geographers Annual Meeting*. March 2023. Denver, CO.
- 2022 **Arabadjis, Sophia**, Sweeney, Stuart. "New Methods in Time-Use Data Collection." Poster. *American Statistical Association Joint Statistical Meeting*. August 2022. Washington D.C.
- 2021 **Arabadjis, S.D.**, C. Kenner, D. Tedesco, S. Sweeney. "Where the Heart Lies: Cardiac Events and the Thomas Fire." Presentation. *Association of American Geographers, Annual Meeting*. April 2021. **Virtual due to COVID-19**
- 2021 Zajacova, Anna, **Sophia Arabadjis**, Laura Stephenson, Susan Cassels. "The Summer of Pain: COVID-19, politics, racial reckoning, and pain among US adults." Presentation. *Western Network for Economic and Social Trends COVID Resilience & Recovery Workshop*. April 2021. Virtual.
- 2020 Kenner, Catelynn, **S.D. Arabadjis**, L.F. Smith. "Examining Birth Outcomes After Wildfire Exposure." Poster. *American Public Health Association Annual Meeting*. San Francisco, CA. October 27, 2020. **Virtual due to COVID-19**
- 2020 Reid, Sean, **S.D. Arabadjis**, C. McWhorter. "Just 'N Case: Network Connectivity Among Connected Students". Presentation. *UCSB Broom Center for Demography COVID-19 Mini-Conference*. September, 2020.

- 2020 Arabadjis, S.D., K. Baylis, S. Sweeney. "WHAM! Pilot Study: Preliminary Results." Presentation. *Peanut Innovation Lab Annual Graduate Student Meeting*. August 2020. **Virtual due to COVID-19**
- 2020 Arabadjis, S.D., E. Sullivan. "The Role of Audience, Purpose and Participation in Data and HIT Use in Primary Care." Presentation. 80<sup>th</sup> *Annual Meeting of the Academy of Management*. Vancouver, BC, Canada, August 2020. **Cancelled due to COVID-19**
- 2020 Arabadjis, S.D., S. Sweeney. "Gender, fertility and intrahousehold dynamics in the Senegalese peanut production chain: Mid-Year Updates." Presentation. *Peanut Innovation Lab Annual Meeting*. June 2020. **Virtual due to COVID-19**
- 2020 Arabadjis, S.D., C. Kenner, D. Tedesco, S. Sweeney. "Where the Heart Lies: Cardiac Events and the Thomas Fire." Presentation. *American Association of Geographers, Annual Meeting*, Denver, CO. April 2020. **Cancelled due to COVID-19**
- 2020 Arabadjis, S.D., S. Schlund, S.L. Blakeley, J. Marter-Kenyan, J. Banks, S. Sweeney. "New Methods in Time Use: Wrist-Worn Technology." Presentation. *Population Association of America, Annual Meeting*. Washington DC, April 2020. **Cancelled due to COVID-19**
- 2019 Kenner, Catelynn, S.D. Arabadjis, L. Smith, M. Wehmer. "Birth Outcomes after Acute Wildfire Exposure." Poster. *Interdisciplinary Association for Population Health Science (IAPHS)*, Minneapolis, MN. October, 2019.
- 2018 Bunn, Jason, S.D. Arabadjis, M. Meier, C. Mata, L.M. McLeod, S. Somme. "Geography, Social Policy, and Population Characteristics Associated with Prevalence of Abusive Head Trauma in the U.S." Poster. *Colorado Children's Hospital Research Symposium*. Aurora, CO. July 2018.
- 2018 Rice, John D., M. Cohen, B. Mosely, S.D. Arabadjis, L.M. McLeod, "Hospital-Level Variation in Anesthesia Regimen: Associations with Length of Stay for Posterior Spinal Fusion Patients," Presentation. *Colorado Children's Hospital Research Symposium*. Aurora, CO. July 2018.
- 2018 Cohen, Mindy, B. Mosely, S.D. Arabadjis, J.D. Rice, L.M. McLeod, "Intraoperative Methadone: How is it used and does it prolong length of stay after spinal fusion in adolescent idiopathic scoliosis?" Presentation. *Colorado Children's Hospital Research Symposium*. Aurora, CO. July 2018.
- 2017 Arabadjis, Sophia D., J. Cataldi, M. Cohen, E. Benefield, M. Mendez, A. Silver, S. Evans, D. Quakenbush, Z. Van Rheen, J. Zamkoff, L. McLeod. "Reducing Central Line Duration Among Spinal Fusion Patients." Poster. *QI & Qdoba: Quality Improvement Sharing & Learning Symposium Poster Session*. Aurora, CO. July 2017. (Best Poster Award)
- 2016 Sullivan, Erin E, Arabadjis S. "Primary Care Systems Case Collection & Preliminary Findings." Presentation. *Complete Care Meeting, Southern California Permanente Medical Group*. Pasadena, CA. April 2016.
- 2016 Arabadjis, Sophia D. "The Camden Coalition of Healthcare Providers: A Recap." Presentation. *February Academic Innovations Collaborative Learning Session*, Boston MA. February 2016.
- 2015 Jack, Helen, S. Basu, S. Arabadjis, E. Sullivan, R. Phillips. "Systematic Review and Microsimulation Model (Community Health Workers)." Presentation. *Massachusetts Department of Public Health*, Boston, MA. September 2015.
- 2015 Wohler, Diana, S. Arabadjis, E. Sullivan, S. Stout. "Leadership Training in Medical School Curriculum." Presentation. *Harvard Medical School Center for Primary Care Faculty*, Boston, MA. May 2015.

2014 Arabadjis, Sophia. "The Intersection of Victimization and Learning Difficulty: A Study of Nine-Year-Olds in Ireland." Presentation. *National Children's Research Network for Ireland and Northern Ireland Conference*, Dublin, Ireland. December 2014.

## Research Related Press

Development Talk. "UCSB Geography Showcase: Developments in Wildfire Research." Tiburon, Marin County California. May 2022.

PhD Student Spotlight. "Do fire evacuations increase stress-induced health problems?" UC Santa Barbara Geography Alumni Newsletter. Issue 1. Fall 2021.

Feature Story. "[Biometrics could give more vivid picture of woman's workload.](#)" Allison Floyd. *College of Agricultural & Environmental Sciences* University of Georgia. August 04, 2020.

Arabadjis, Sophia D., E. Sullivan, "[Get Data On Board,](#)" HealthManagement.org: The Future is Digital, 2020.

Arabadjis, Sophia D., E. Sullivan. "[How One California Medical Group is Decreasing Physician Burnout,](#)" Harvard Business Review: Organizational Structure. June 7, 2017

## Grants, Honors & Awards

Academic Senate Doctoral Travel Grant Awardee (\$1500) The University of California Santa Barbara Academic Senate	2024
Student Poster Competition - Winner (\$200) The Association of Pacific Coast Geographers Annual Meeting	2023
Peter Gould Student Paper Competition - Winner (\$300) Association of American Geographers Annual Meeting	2023
Population Association of America Annual Meeting Travel Grant (\$500) Broom Center for Demography, UCSB	2023
New York City Department of Health and Mental Hygiene Office of School Health (\$24,000) Lifetime heroin use and neighborhood effects, trends in New York City High School Students (\$12,000.00) Mental health and neighborhood effects, trends in New York City High School Students (\$12,000.00)	Present 2022 2023
Department of Applied Probability and Statistics Summer Travel Funds (\$800) American Statistical Association Joint Statistical Meeting Travel award	2022
David S. Simonett Memorial Award (\$1500)	Spring 2022
Brigham and Women's Hospital; Suffolk University (\$1080.00) Marginal models in small clustered data sets, time use, health care delivery, burnout	2021
University of Western Ontario Department of Sociology (\$4,000) Pain and political discordance, elections, survey data, regression analysis	2021
Fiona and Michael Goodchild Graduate Mentoring Award - Nominee	Spring 2021
Chair's Recognition of Outstanding Service Award (\$500)	Spring 2021
Graduate Student Academic Advancement: Scholarly Collaborations (\$890.80) Arabadjis, S.D. <i>GPS Talks</i> (Founding Organizer) Department of Geography UC-Santa Barbara	Spring 2021

Geography DEI Working Group, Recognition of Extraordinary Effort (\$1,000)	Summer 2020
Multidisciplinary Research for COVID-19 and its Impacts Grant (\$6,000) Arabadjis, S.D. (PI, \$2,000 direct support) Department of Geography UC-Santa Barbara	Summer 2020
Population Association of America Annual Meeting Travel Grant (\$500) Broom Center for Demography, UCSB <i>Award postponed due to COVID-19 and PAA Cancellation</i>	2020
Graduate Student Research Assistant (GSR) (tuition plus stipend) <i>Gender, fertility, and intra-household dynamics and resilience in the Senegalese peanut production chain</i> Sweeney, S. (PI) Department of Geography UC-Santa Barbara	2019-2020, Summer 2020-2023
Chancellor's Scholar (tuition plus stipend) Chancellor's Central Fellowship, Graduate Division Award, UC-Santa Barbara	2018-19, 2020-21, 2022-23
Best Poster Award – <i>Reducing Central Line Duration Among Spinal Fusion Patients</i> Quality Improvement Symposium, Children's Hospital Colorado, CO	2017
Fullbright Scholarship Finalist	2013
National Science Foundation: Research Experience for Undergraduates (REU) (\$5,000) Department of Anthropology, University of Chicago	2012
Student Marshall Awarded to 50 students per graduating class on the basis of extraordinary commitment to extracurricular activities and academic achievement, University of Chicago	2012

## Teaching Experience

Guest Lecture <i>Introduction to Geographic Thought: 'Quantitative Revolution', Spatial Science, &amp; Empiricism,</i> UCSB Department of Geography	Winter 2024
Instructor <i>Math-Stat Bootcamp for Incoming Graduate Students,</i> UCSB Department of Geography	Summer 2023, 2022, 2021
Volunteer Teaching Assistant <i>GEOG 210c: Analytical Methods in Geography III,</i> UCSB Department of Geography	Spring 2021, Fall 2022
Teaching Assistant <i>GEOG 109: Economic Geography,</i> UCSB Department of Geography (Hybrid)	Winter 2022
Teaching Assistant <i>GEOG 108: Urban Geography,</i> UCSB Department of Geography (Hybrid)	Fall 2021
Statistics Tutor <i>Graduate-Level Regression 101,</i> UCSB Department of Statistics (Online)	Summer 2020

Teaching Assistant <i>GEOG 6: Sex, Drugs and Geography</i> , UCSB Department of Geography (In Person to Online)	Spring 2020
--	-------------

Teaching Assistant <i>GEOG 20: Geography of Surfing</i> , UCSB Department of Geography (In Person)	Winter 2020
--	-------------

### **Additional Pedagogy Training**

CIRTL MOOC Training Completion <i>An Introduction to Evidence-Based STEM Undergraduate Teaching</i>	Fall 2022
--	-----------

Instructional Development Taping Review Video-taped TA section and reviewed with instructional development staff	Spring 2022
---	-------------

### **Undergraduate Mentees**

- |   |              |
|---|--------------|
| • Lily Strange, BS (Biology, Geography)   | 2023-Present |
| • Sarah Schlund, BS (Geography and Statistics, AAG 2023)                                    | 2019-2023    |
| • Theo Lee, BA (Anthropology, AAG 2023)   | 2020-2022    |
| • Dexter Hamilton BS (Geography)  | 2023         |
| • Hally Zhou (Geography, GIS Emphasis, AAG 2023, Library Award for Undergraduate Research)  | 2022-2023    |
| • Harry Hebel (Geography, GIS Emphasis, AAG 2023, Library Award for Undergraduate Research) | 2022-2023    |
| • Austin Covey, BS (Environmental Studies, Ecology Evolution Marine Biology)                | 2021-2022    |
| • Michelle Le, BA (Environmental Studies)   | 2021         |

### **Selected Service and Mentorship**

Geographic Information Science Hiring Committee, Department of Geography, UC-Santa Barbara	2023
New Grad Mentorship Program, Department of Geography, UC-Santa Barbara	2021-2023
Geography Outreach and Visibility Committee, Department of Geography, UC-Santa Barbara	2019-2022
Ellison Building Hall Committee (Covid-19 Campus Building Protocols), UC-Santa Barbara	2020-2022
Regular Member, Geography Equity, Diversity and Inclusion Working Group, UC-Santa Barbara	2020-2021
Graduate Facilitator, Ad Hoc Hiring Committee, Department of Geography, UC-Santa Barbara	2020
Graduate Student Sports Committee, Department of Geography, UC-Santa Barbara	2018-2019

## Professional Organization Memberships

---

- |  |              |
|--|--------------|
| • American Statistical Association (ASA)           | 2019-Present |
| • ASA Health Policy Statistics Section             | 2020-Present |
| • ASA Lifetime Data Analysis Section               | 2020-Present |
| • American Association of Geographers (AAG)        | 2018-Present |
| • AAG Health and Medical Geography Specialty Group | 2018-Present |
| • AAG Hazards, Risks and Disasters Specialty Group | 2018-Present |
| • Population Association of America (PAA)          | 2020-Present |

### Journal Article Reviewer:

- *Demography*
- *PNAS*
- *BMC Primary Care*
- *Journal of Health Organization and Management*